

A NEW SPECIES OF *TRICHOPTERYX* FROM JAPAN (LEPIDOPTERA : GEOMETRIDAE)

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Up till now, fourteen species of the genus *Trichopteryx* have been known from Japan, including recently rediscovered *T. muscigera* (Butler). Here I intend to describe a further new species which has no distinct markings, but the structure of genitalia is so characteristic that it can safely be separated from hitherto known species.

Before going further I must express my cordial thanks to Dr. H. Inoue, Otsuma Woman's University, for his helpful advice in the preparation of this manuscript and for his kindness in giving me an opportunity to examine his valuable specimens. My appreciation is also due to Messrs. H. Yoshimoto and D. Yamamoto for their constant encouragement.

Trichopteryx incerta sp. nov.

Closely allied to *T. nagaii* Inoue but palpus much longer in both sexes, about 2.5 times as long as diameter of eye in male, and 3.5 times length in female, while in *nagaii* about 1.5 times length in male, and twice length in female; second and third segments dark brown laterally, yellowish white below. Head dark brown mixed with yellowish white.

Forewing with the ground colour almost uniformly fuscous, darker than in *nagaii*, especially much darker at costal area from base to near apex; transverse lines less dentate and more obsolescent, except blackish brown basal line, which is nearly always obvious, serrate on veins as in *nagaii*; antemedian fascia tinged with dark greyish brown from costa to near anterior margin of cell, dotted with blackish brown on each vein as in *nagaii*, strongly bent inwards at centre of cell, then nearly straight and almost vertical to hind margin, but becoming obscure, while it is more roundish and conspicuous in *nagaii*; postmedian fascia tinged with dark greyish brown at costal area, nearly perpendicular to each vein especially conspicuous on veins 3 and 4, but not so distinct as in *nagaii*; in most specimens of *nagaii*, ante- and postmedian fascia approximated to each other in cellule 1, while in this new species they are nearly parallel from medial area to hind margin; terminal line represented by a series of small blackish brown intervenular spot; discocellular dot dark brown, elongate, sometimes contact with proximal margin of postmedian fascia; cilia white mixed with dark brown.

Hindwing silky white with faint discocellular dot; lobe in male nearly identical in size and shape as in *nagaii*; cilia white.

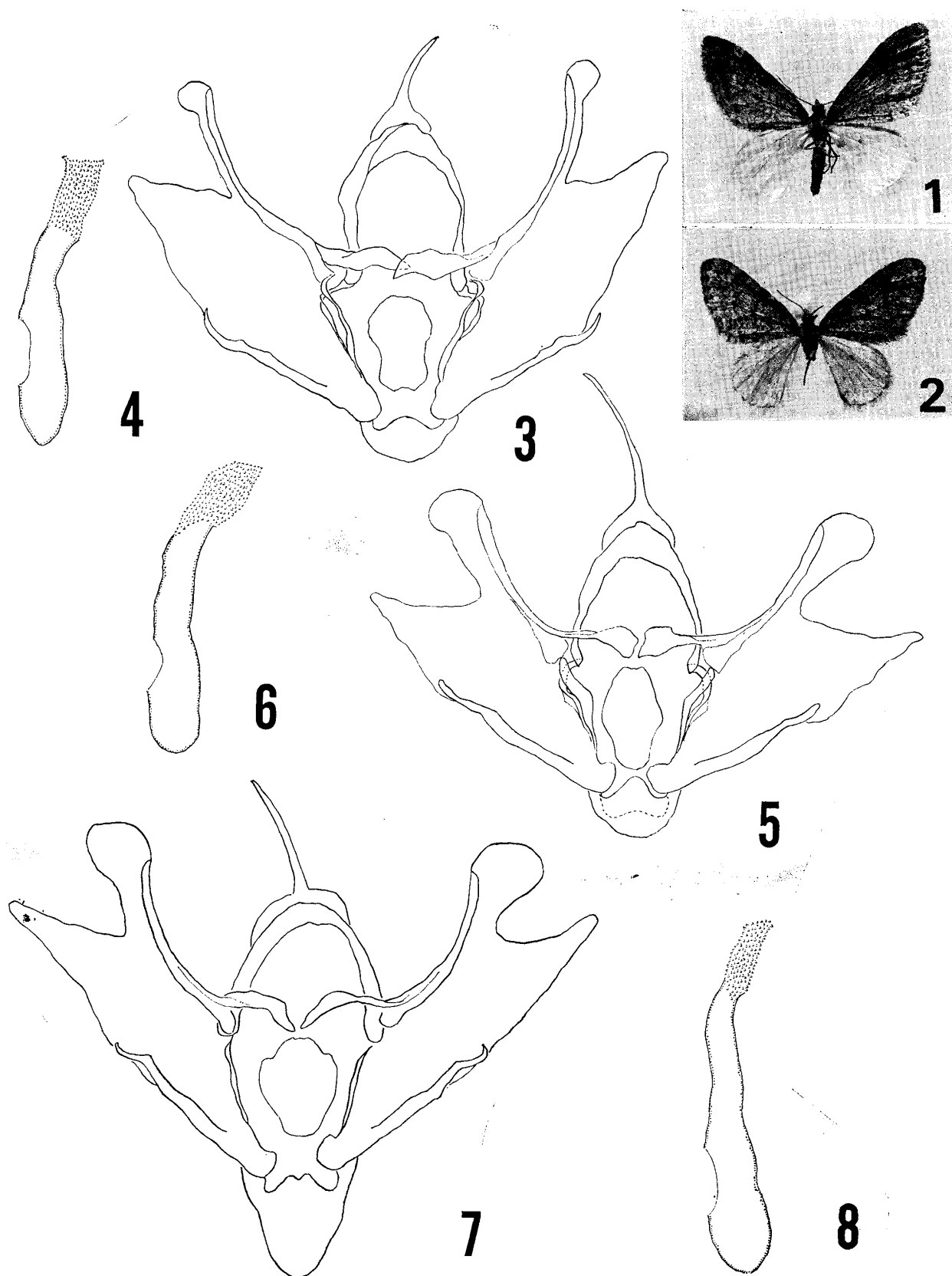
Length of forewing: ♂ ♀, 13-15mm.

Male genitalia: Uncus slender, tapering apically, and much shorter than in *nagaii*; costal protrusion considerably long, slightly curved dorsally and relatively narrow at cucullus; valvula narrowed apically and apex bluntly pointed; free arm of sacculus moderately produced to a point at apex; aedeagus simple and moderate in size.

Female genitalia: Ostium bursae well sclerotized; ductus bursae rather long, about four times as long as diameter of bursa copulatrix, while in *nagaii* it is 1.5 times length; sclerotized comb-bearing band about one-third length of ductus bursae; bursa copulatrix small, globular, completely covered with spines.

Holotype. ♂, Bushi, Iruma, Saitama Pref., Mar. 20, 1975 (H. Inoue). Preserved in the collection of Dr. H. Inoue.

Paratypes. Same data as holotype, 1♂; Mt. Ogasa, Shizuoka Pref., Mar. 9, 1959, 1♀ (Y. Saito); Harayama, Takayama City, Gifu Pref., Apr. 10, 1975, 1♂ (H. Endo). In the collection of Dr. H. Inoue. Fukushima, Yamanashi Pref., Mar. 29, 1975, 1♂; Apr. 12, 1975, 1♂; Apr. 17, 1976, 1♀ (K. Yazaki). In my collection.



T. ignorata Inoue is somewhat similar in appearance to this new species but distinguished from it as follows: smaller in size, palpus much shorter, forewing with each transverse fascia conspicuous, hindwing pale brownish grey; male genitalia with uncus much longer, costa dilated at cucullus, saccus elongated, while in *incerta* it is more roundish; in the female genitalia, ductus bursae nearly as long as that of *incerta*, comb-bearing band about two-fifths length of ductus bursae, bursa copulatrix larger and elliptical.

摘 要

Trichopteryx incerta sp. nov. ウスオビコバネナミシヤク (新称) を記載した. 本種は *T. nagaii* Inoue チャマダラコバネナミシヤクに近縁なものであるが, 前翅の色彩が暗く斑紋が不明瞭で, 下唇鬚が非常に長いことなどで区別される. 私が調べることでできた標本の産地は次のとおりである.

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(矢崎克己)

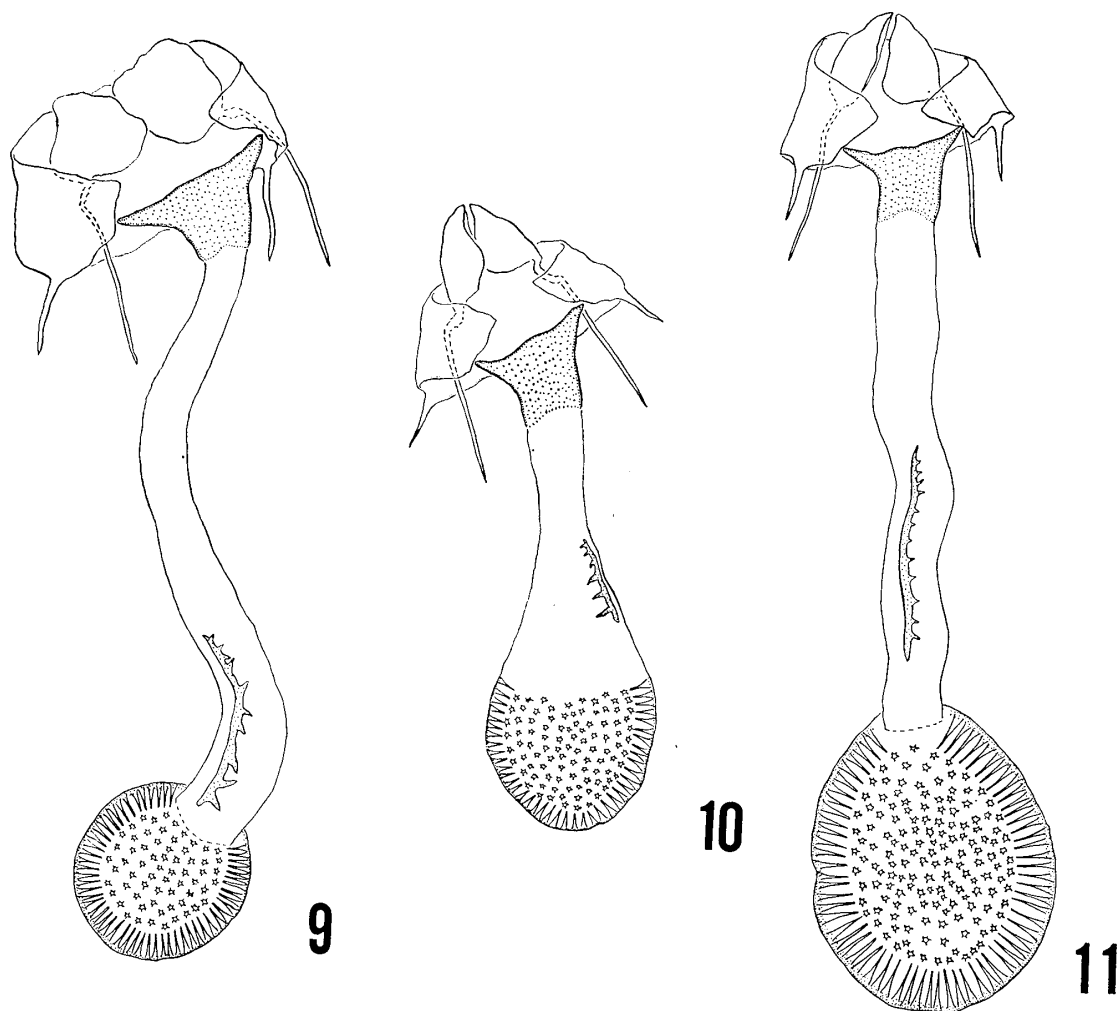


Fig. 1-2. *Trichopteryx incerta* sp. nov. 1. ♂, holotype, Bushi. 2. ♀, paratype, Mt. Ogas. Fig. 3-8. Male genitalia and aedeagus of *Trichopteryx* spp. 3, 4. *T. incerta* sp. nov. 5, 6. *T. nagaii* Inoue. 7, 8. *T. ignorata* Inoue. Fig. 9-11. Female genitalia of *Trichopteryx* spp. 9. *T. incerta* sp. nov. 10. *T. nagaii* Inoue. 11. *T. ignorata* Inoue.